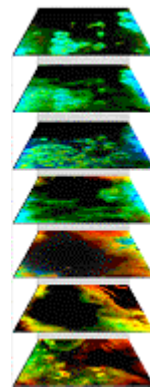


# Workshop on Advanced Multiphoton and Fluorescence Lifetime Imaging Techniques

St. Ingbert, Germany, June 19 to 21, 2006



## Program

Monday, June 19		Introductory Lectures	
8:30	Registration	Registration at St. Ingbert	
9:20	Transfer	Transfer to the Cryo-Hall, Sulzbach	
9:45		Opening Remarks	K. König, W. Becker
10:00-12:00		Multiphoton Microscopy	P.T. So
12:00-12:45	Break	Lunch at Sulzbach	
12:45-14:45		Time-Resolved Fluorescence (FLIM, FCS)	W. Becker
	Break	30 min break <i>At the breaks, you will find refreshments, coffee and tea.</i>	
15:15-17:15		Multiphoton Tomography	A. Tchernook, I. Riemann, M. Kaatz
17:30-19:00	Reception	Welcome by the Director of the Institute for Biomedical Engineering, G. R. Fuhr - Reception with Snacks and Drinks-	G. R. Fuhr K. König
19:00	Transfer	Transfer back to St. Ingbert	

Workshop Program  
St. Ingbert, Germary, June 19-21, 2006

**Tuesday, June 20**

<b>8:30</b>	<b>Registration</b>	<b>Registration at St. Ingbert</b>	
<b>9:00</b>	<b>Transfer</b>	<b>Transfer to Sulzbach</b>	
<b>9:15 –10:45</b>	<b>Session 1</b>	<b>Molecular Imaging</b>	
	9:15-9:45	Multi-Spectral Fluorescence Lifetime Imaging by TCSPC	W. Becker
	9:45-10:15	Multi-dimensional fluorescence lifetime and FRET measurements	Ch. Biskup
	10:15-10:45	Two-photon Fluorescence Correlation Spectroscopy and Lifetime Imaging of Dye Molecules in Nanochannels	Z. Petrasek
<b>10:45-10:55</b>	<b>Break</b>	<b>Short break</b>	
<b>10:55-12:25</b>	<b>Session 2</b>	<b>Applications in Physiology and Medicine</b>	
	10:55-11:25	Two-photon imaging and imaging spectroscopy in physiology	R. Duncan
	11:25-11:55	Fluorescence lifetime measurement at the human retina.- a new tool for metabolic mapping in Ophthalmology	D. Schweitzer
	11:55-12:25	Multiphoton Tomography of Melanoma	M. Kaatz
<b>12:25-12:30</b>		<b>Group-Photo in the Auditorium</b>	
<b>12:30-13:15</b>	<b>Poster 1</b>	<b>Poster Session 1 during Lunch at Sulzbach</b> Posters can be put up already on Monday and stay until Wednesday afternoon.	
<b>13:15-14:45</b>	<b>Session 3</b>	<b>Technology, Methods and Developments</b>	
	13:15-13:45	SLIM, a new method for molecular imaging	A. Rück
	13:45-14:15	Multidimensional fluorescence imaging	P. French
	14:15-14: 45	A new method for FLIM analysis: The phasor approach	M. Digman
<b>15:00</b>	<b>Transfer</b>	<b>Transfer to St. Ingbert</b>	

**Tuesday, June 20, continued**

<b>15:15-18:30</b>	<b>Demonstration Session 1</b>	<b>Hands-on Demonstrations</b>	
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**Please note:**

- We propose to form groups to provide access for every participant to all workstations (see at registration). **1 ½ h are reserved for the guided visits**, the rest is free.
- Various workstations located in the labs of the institute. **Please follow the posted indications.**
- For a quiet discussion place with Internet access and refreshments, please visit the **“Workshop Lounge”** situated in the seminar room of the *Villa*.

	<b><i>Please, do not enter any lab with food or drinks! For your own safety, please follow the instructions given at the labs.</i></b>		
	<b>Workstations</b>		
	Seven stations will be equipped and serviced. Details are given below.		
<b>18:30</b>	End. The possibility to continue open-end might be arranged.		

Workshop Program  
St. Ingbert, Gernay, June 19-21, 2006

**Wednesday, June 21**

<b>8:30</b>	<b>Registration</b>	<b>Registration</b>	
<b>9:00</b>	<b>Transfer</b>	<b>Transfer to Sulzbach</b>	
<b>9:15-10:45</b>	<b>Session 4</b>	<b>Applications in Physiology and Medicine</b>	
	9:15-9:45	Clinical two-photon microendoscopy	K. König
	9:45-10:15	Two-photon lifetime imaging in intact blood vessels	M. van Zandvoort
	10:15-10:45	Fluorescence lifetime imaging used for intracellular chloride imaging in neuronal tissue	T. Gensch
<b>10:45-11:00</b>	<b>Break</b>	<b>Short break</b>	
<b>11:00-12:30</b>	<b>Session 5</b>	<b>Technology, Methods and Developments</b>	
	11:00-11:30	- Applications of spectral resolved FLIM, FCS in mechanotransduction-	P. T. So
	11:30-12:00	Fluorescence Correlation Spectroscopy as a Tool to Assess Molecular Dynamics	K. Weisshart
	12:00-12:30	- Title to be announced -	B. Bacskai
<b>12:30-13:30</b>	<b>Poster 2</b>	<b>Poster Session 2 with Lunch at Sulzbach</b> Posters have to be taken down before today 14:30	
<b>13:30-14:30</b>	<b>Session 6</b>	<b>Applications in Physiology and Medicine</b>	
	13:30-14:00	Diagnostic Possibilities of Multiphoton and Fluorescence Lifetime Imaging in Brain Tumor-Diagnosis and Ophthalmology	G. Hüttmann
	14:00-14:30	FLIM of GFP	K. Suhling.
<b>14:30-14:45</b>		Concluding Remarks	K. König, W. Becker
<b>15:00</b>	<b>Transfer</b>	<b>Transfer to St. Ingbert</b>	

**Wednesday, June 21, continued**

<b>15:15-18:00</b>	<b>Hands-on Demonstrations Session 2</b>	St. Ingbert
Please see notes on Tuesday's program		
	<b><i>Please, do not enter any lab with food or drinks! For your own safety, please follow the instructions given at the labs.</i></b>	
	<b>Workstations</b>	
	Seven stations will be equipped and serviced. Details are given below.	
<b>18:00</b>	<b>Transfer to Saarbrücken for dinner</b>	
<b>19:00 - Open</b>	<b>Dinner at <i>Weinbistro Archipenko im Saarlandmuseum</i></b> 19:00 Reception 20:00 Buffet  <b>Art Museum: "Saarlandmuseum", <a href="http://www.saarlandmuseum.de">www.saarlandmuseum.de</a></b> You are invited to visit the Saarlandmuseum. Among others the collection houses works of art from Liebermann, Corinth and Slevogt as well as old masterpieces. Current exhibitions are Zilla Leutenegger „ <i>Wichtiger Besuch</i> “ and Hans Purrmann „ <i>Im Kräftespiel der Farben</i> “	Address: ARCHIPENKO Bismarckstraße 11-15 66111 Saarbrücken +49 (0)681 9964-230  Moderne Galerie Bismarckstraße 11-15 66111 Saarbrücken +49 (0)681 9964-0